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#7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/021,121

DATE: 02/01/2002 TIME: 11:33:53

Input Set : N:\Crf3\RULE60\10021121.raw
Output Set: N:\CRF3\02012002\J021121.raw

## SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
             (i) APPLICANT: Caras, Ingrid W
      7
            (ii) TITLE OF INVENTION: A2-1 Neurotrophic Factor
      9
           (iii) NUMBER OF SEQUENCES: 10
                                                                  ENTERED
            (iv) CORRESPONDENCE ADDRESS:
     11
     12
                  (A) ADDRESSEE: Genentech, Inc.
     13
                  (B) STREET: 1 DNA Way
     14
                  (C) CITY: South San Francisco
                  (D) STATE: California ·
     15
                  (E) COUNTRY: USA
     16
                  (F) ZIP: 94080
     17
     19
             (V) COMPUTER READABLE FORM:
                  (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
     20
                  (B) COMPUTER: IBM PC compatible
     21
     22
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     23
                  (D) SOFTWARE: WinPatin (Genentech)
     25
            (vi) CURRENT APPLICATION DATA:
C--> 26
                  (A) APPLICATION NUMBER: US/10/021,121
C--> 27
                  (B) FILING DATE: 06-Dec-2001
     28
                  (C) CLASSIFICATION:
     30
           (vii) PRIOR APPLICATION DATA:
     31
                  (A) APPLICATION NUMBER: US/08/635,130
     32
                  (B) FILING DATE: 19-Mar-1996
     35
          (viii) ATTORNEY/AGENT INFORMATION:
     36
                  (A) NAME: Torchia, PhD., Timothy E.
                  (B) REGISTRATION NUMBER: 36,700
     37
     38
                  (C) REFERENCE/DOCKET NUMBER: P1001
     40
            (ix) TELECOMMUNICATION INFORMATION:
     41
                  (A) TELEPHONE: 650/225-8674
     42
                  (B) TELEFAX: 650/952-9881
        (2) INFORMATION FOR SEQ ID NO: 1:
     45
             (i) SEQUENCE CHARACTERISTICS:
     46
                  (A) LENGTH: 1877 base pairs
     47
                  (B) TYPE: Nucleic Acid
     48
                  (C) STRANDEDNESS: Double
                  (D) TOPOLOGY: Linear
    49
    51
            (ix) FEATURE:
    52
                  (A) NAME/KEY: Extra Cellular Domain
                  (B) LOCATION: 244-899
    53
    54
                  (C) IDENTIFICATION METHOD:
```

(D) OTHER INFORMATION:

(ix) FEATURE:

55

57

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```
(A) NAME/KEY: Transmembrane Domain
59
             (B) LOCATION: 901-978
60
             (C) IDENTIFICATION METHOD:
             (D) OTHER INFORMATION:
63
       (ix) FEATURE:
             (A) NAME/KEY: signal peptide
             (B) LOCATION: 244-321
             (C) IDENTIFICATION METHOD:
67
             (D) OTHER INFORMATION:
69
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
72
    GNTCTAGAAN TAGTGGATCC CCCCGGGCTG CAGGAATTCC GACGGCCCCT 50
    GGAAGGGCTC TGGTGGGGCT GAGCGCTCTG CCGCGGGGCC GCGGGCACAG 100
   CAGGAAGCAG GTCCGCGTGG GCGCTGGGGG CATCAGCTAC CGGGGTGGTC 150
    CGGGCTGAAG AGCCAGGCAG CCAAGGCAGC CACCCCGGGG GGTGGGCGAC 200
    TTTGGGGGAG TTGGTGCCCC GCCCCCAGG CCTTGGCGGG GTC ATG 246
81
82
    GGG CCC CCC CAT TCT GGG CCG GGG GGC GTG CGA GTC GGG 285
84
85
    Gly Pro Pro His Ser Gly Pro Gly Gly Val Arg Val Gly
86
                                      10
88
    GCC CTG CTG CTG GGG GTT TTG GGG CTG GTG TCT GGG 324
89
    Ala Leu Leu Leu Gly Val Leu Gly Leu Val Ser Gly
90
     15
                         20
92
    CTC AGC CTG GAG CCT GTC TAC TGG AAC TCG GCG AAT AAG 363
    Leu Ser Leu Glu Pro Val Tyr Trp Asn Ser Ala Asn Lys
94
             30
                                 35
    AGG TTC CAG GCA GAG GGT GGT TAT GTG CTG TAC CCT CAG 402
    Arg Phe Gln Ala Glu Gly Gly Tyr Val Leu Tyr Pro Gln
                     45
100
     ATC GGG GAC CGG CTA GAC CTG CTC TGC CCC CGG GCC CGG 441
101
     Ile Gly Asp Arg Leu Asp Leu Leu Cys Pro Arg Ala Arg
102
          55
                              60
104
     CCT CCT GGC CCT CAC TCC TCT CCT AAT TAT GAG TTC TAC 480
105
     Pro Pro Gly Pro His Ser Ser Pro Asn Tyr Glu Phe Tyr
106
                  70.
                                       75
108
     AAG CTG TAC CTG GTA GGG GGT GCT CAG GGC CGG CGC TGT 519
109
     Lys Leu Tyr Leu Val Gly Gly Ala Gln Gly Arg Arg Cys
110
                          85
112
     GAG GCA CCC CCT GCC CCA AAC CTC CTT CTC ACT TGT GAT 558
113
     Glu Ala Pro Pro Ala Pro Asn Leu Leu Leu Thr Cys Asp
114
              95
                                 100
116
     CGC CCA GAC CTG GAT CTC CGC TTC ACC ATC AAG TTC CAG 597
117
     Arg Pro Asp Leu Asp Leu Arg Phe Thr Ile Lys Phe Gln
                     110
                                         115
120
     GAG TAT AGC CCT AAT CTC TGG GGC CAC GAG TTC CGC TCG 636
121
     Glu Tyr Ser Pro Asn Leu Trp Gly His Glu Phe Arg Ser
122
         120
                             125
                                                  130
124
     CAC CAC GAT TAC TAC ATC ATT GCC ACA TCG GAT GGG ACC 675
125
     His His Asp Tyr Tyr Ile Ile Ala Thr Ser Asp Gly Thr
```

RAW SEQUENCE LISTING

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126				135					140					
128	CGG	GAG	GGC	CTG	GAG	AGC	CTG	CAG	GGA	GGT	GTG	TGC	CTA	714
129	Arg	Glu	Gly	Leu	Glu	Ser	Leu	Gln	Gly	Gly	Val	Cys	Leu	•
130	145			,		150					155			
132	ACC	AGA	GGC	ATG	AAG	GTG	CTT	CTC	CGA	GTG	GGA	CAA	AGT	753
133	Thr	Arg	Gly	Met	Lys	Val	Leu	Leu	Arg	Val	Gly	Gln	Ser	
134			160					165					170	
136	CCC	CGA	GGA	GGG	GCT	GTC	CCC	CGA	AAA	CCT	GTG	TCT	GAA	792
137	Pro	Arg	Gly	Gly	Ala	Val	Pro	Arg	Lys	Pro	Val	Ser	Glu	
138					175					180				
140	ATG	CCC	ATG	GAA	AGA	GAC	CGA	GGG	GCA	GCC	CAC	AGC	CTG	831
141	Met	Pro	Met	Glu	Arg	Asp	Arg	Gly	Ala	Ala	His	Ser	Leu	
142	•	185					190					195		
144								CCA						870
145	Glu	Pro	Gly	Lys	Glu	Asn	Leu	Pro	Gly	Asp	Pro	Thr	Ser	
146				200					205					
148								GAA						909
149	Asn	Ala	Thr	Ser	Arg	Gly	Ala	Glu	Gly	Pro	Leu	Pro	Pro	
150	210					215					220			
152								GGG						948
153	Pro	Ser		Pro	Ala	Val	Ala	Gly	Ala	Ala	Gly	Gly	Leu	
154			225					230					235	
156								GCA						987
157	Ala	Leu	Leu	Leu	Leu	Gly	Vaļ	Ala	Gly	Ala	Gly	Gly	Ala	
158		,			240					245				
160														1026
161	Met		Trp	Arg	Arg	Arg	_	Ala	Lys	Pro	Ser		Ser	
162		250					255					260		
164														1065
165	Arg	His	Pro	_	Pro	Gly	Ser	Phe	_	Arg	Gly	Gly	Ser	
166				265					270					
														1104
169		GTĀ	Leu	СТĀ	GLY		GIY	Gly	Met	GTA		Arg	GIu	
170	275	a. a			a. a	280				~-~	285			
172														1143
173	Ата	GIU		GTA	GIU	Leu	СТА	Ile	Ата	Leu	Arg	GTA	_	
174 176	CCC	COM	290	C 3 m	000	000	mma	295	000	~~~		a.a	300	1100
177														1182
178	СТЙ	Ата	Ald	ASP		PIO	Pile	Cys	PIO		туг	GIU	гàг	
180	CMC	3 CID	CCIII	CAG	305	000	CAM	COM	ста	310	3 m/d	ama	03.0	1001
181														1221
182	Val	315	GTA	ASP	TAT	GIY	320	Pro	var	туг	me	325	GIII	
184	ሮአመ		aca	ccc	CAC	N.C.C		CCN	220	N ID C	ma a		202	1260
185														1260
186	wah	сту	PLO	330	GTII	oer,	PLO	Pro	335	тте	TAT	TAT	THE	
188	ጥርር	ייייים ע	m C m		መመረ	CAC	mcc	ccc		mme	C A m	7.00	አመን	1299
189								Pro						1733
190	340	TŤE	SET	val	neu	345	ттЪ	FIO	тте	т¢п		TIIL	тте	
T 9 0	240					343					350			

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192	(2) )	СТС	ጥጥጥ	ጥጥር	እ ጥር	CCA	TCC	AAC	TGC	TO C	CCT	CTC	አርሞ	122	0
193									Cys.					133	o
194	0111	Dea	355	1110	nec	nrg	DCI	360	CYS	Jei	Arg	VUL	365		
196	ACA	ጥጥር		ጥጥጥ	ССТ	GTG	αΔΩ		ATT	ΔCG	ΔCΔ	ጥርር		137	7
197									Ile					137	′
198	****				370	,	0111	,	110	375	1111	JCI	1111		
200	TGC	CGG	ATG	АСТ		ттт	AGC	արարար	ACC		CTG	AAC	CCA	141	6
201									Thr						•
202	-1	380					385					390			
204	TCC		CAG	GCC	TGC	AGA		CAG	ATG	GGG	GAA		CGA	145	5
205									Met						
206				395	-	_			400	•			,		
208	ATC	AGA	TGG	TGT	TTC	TGG	GGG	GAC	AGG	ATC	CTG	GGT	ACG	149	4
209									Arg						
210	405	_	_	_		410	-	-	_		415	-			
212	GCT	CTG	TTT	GTG	CTT	GTG	CTT	ATT	CTT	CTT	CTT	GGG	AGG	153	3
213	Ala	Leu	Phe	Val	Leu	Val	Leu	Ile	Leu	Leu	Leu	Gly	Arg		
214		•	420					425				_	430		
216	CTG	AAT	ATG	CAT	CAG	ACG	ACA	CTG	CTC	CGG	CAA	CGG	GCC	157	2
217	Leu	Asn	Met	His	Gln	Thr	Thr	Leu	Leu	Arg	Gln	Arg	Ala		
218					435					440					
220	AGT	GTG	GAG	GCG	GAA	GCC	GGC	CAG	CAT	GGT	CCC	CTG	TG :	1610	
221	Ser	Val	Glu	Ala	Glu	Ala	Gly	Gln	His	Gly	${\tt Pro}$	Leu			
222		445					450					455			
224															
226															
228									A CCI						
230									G ATO						
232							TCC	CCTC	A TGO	SAAT	CGA	TATO	CAAG	CTT 1	1860
234					CT 1										
236	(2)														
238 239		(1)						STICS		_		•			
240									acids	3					
240					PE: <i>E</i>										
241	,	vil			OLOG				EQ II	NO.	٠.				
245		•										λνα	Val	C117	Ala
246	1	СТУ	PIO	PIO	5	ser	Сту	PIO	СТУ	10	Val	AIG	vai	СТА	15
248		T.011	T.A11	T.Qu	_	Va l	Τ.Δ11	Gly	Leu		Car	C117	Lou	Sor	
249					_			_	шеu			_			
251															Glu
252	Olu	110	vui	+ Y +	35	ASII	Jei	AIG	ASII	40	пту	rne	GIII	Ата	45
254	C117	Glv	Tvr	Va 1		Tvr	Pro	Gln	Ile		Asn	Arσ	T.@11	Δsn	
						- 1 -		O T 11			1106	9	шси	1100	
255	GIY	O <sub>I</sub>	-1-							55				_	
255 257					50	Ara	Pro	Pro	Glv	55 Pro	His	Ser	Ser		60
257					50	Arg	Pro	Pro	Gly		His	Ser	Ser		60 Asn
	Leu	Cys	Pro	Arg	50 Ala 65					Pro 70				Pro	60 Asn 75
257 258	Leu	Cys	Pro	Arg	50 Ala 65				Gly Val	Pro 70				Pro	60 Asn 75
257 258 260	Leu	Cys Glu	Pro Phe	Arg Tyr	50 Ala 65 Lys 80	Leu	Tyr	Leu		Pro 70 Gly 85	Gly	Ala	Gln	Pro Gly	60 Asn 75 Arg 90

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/021,121

DATE: 02/01/2002 TIME: 11:33:53

264					95					100					105
266	Ara	Pro	Asp	Len		Len	Arg	Phe	Thr		T.vs	Phe	Gln	Glu	
267	9				110		9	10		115	210		02	014	120
269	Ser	Pro	Asn	Leu		Glv	His	Glu	Phe		Ser	His	His	Asp	Tyr
270					125	1				130					135
272	Tyr	Ile	Ile	Ala	Thr	Ser	Asp	Gly	Thr	Arq	Glu	Glv	Leu	Glu	-
273	-1-				140			1		145		1			150
275	Leu	Gln	Gly	Gly	Val	Cys	Leu	Thr	Arq	Gly	Met	Lys	Val	Leu	Leu
276			-	-	155					160		•			165
278	Arg	Val	Gly	Gln	Ser	Pro	Arg	Gly	Gly	Ala	Val	Pro	Arq	Lys	Pro
279			_		170		_	-	-	175			_	•	180
281	Val	Ser	Glu	Met	Pro	Met	Glu	Arg	Asp	Arg	Gly	Ala	Ala	His	Ser
282					185			_	_	190	-				195
284	Leu	Glu	Pro	Gly	Lys	Glu	Asn	Leu	Pro	Gly	Asp	Pro	Thr	Ser	Asn
285					200					205	_				210
287	Ala	Thr	Ser	Arg	Gly	Ala	Glu	Gly	Pro	Leu	Pro	Pro	Pro	Ser	Met
288	,				215					220					225
290	Pro	Ala	Val	Ala	Gly	Ala	Ala	Gly	Gly	Leu	Ala	Leu	Leu	Leu	Leu
291					230					235					240
293	Gly	Val	Ala	Gly	Ala	Gly	Gly	Ala	Met	Cys	Trp	Arg	Arg	Arg	Arg
294					245					250				•	255
296	Ala	Lys	Pro	Ser	Glu	Ser	Arg	His	Pro	Gly	Pro	Gly	Ser	Phe	Gly
297					260					265					270
299	Arg	Gly	Gly	Ser	Leu	Gly	Leu	Gly	Gly	Gly	Gly	Gly	Met	Gly	Pro
300					275					280					285
302	Arg	Glu	Ala	Glu		Gly	Glu	Leu	Gly	Ile	Ala	Leu	Arg	Gly	Gly
303					290					295					300
305	Gly	Ala	Ala	Asp		Pro	Phe	Cys	Pro		Tyr	Glu	Lys	Val	
306			_		305				_	310			_		315
308	Gly	Asp	Tyr	GLY		Pro	Val	Tyr	Ile		Gln	Asp	Gly	Pro	
309		_	_	_	320			_	_,	325	3	_	1	_	330
311	GIn	ser	Pro	Pro		тте	Tyr	туг	Thr		тте	ser	vaı	Leu	
312	m	D	T1-	T	335	ml	<b>-1</b> -	a1	<b>.</b>	340	D1	37-6			345
314 315	ттр	Pro	тте	ьец	350	THE	Ile	GIII	ren		Pne	мет	Arg	ser	-
317	Cvc	Cor	7 mar	Wa 1		mb m	Dho	T 011	Dha	355	17-1	C1 n	17.01	T10	360
318	Cys	ser	Arg	val	365	1111	Phe	Leu	Pile	370	val	GIII	Val	тте	375
320	Thr	Sor	Thr	Cvc		Mot	Thr	Cor	Dho		Dho	Thr	Thr	T 011	
321	1111	261	1111	Cys	380	Mec	1111	261	FIIC	385	riie	1111	1111	ьėп	390
323	Dro	Sar	Mot	Gln	_	Cvc	Arg	λla	Gln.		G1 <sub>17</sub>	C111	Dho	λνα	
324	110	SCI	Hec	GIII	395	Cys	лту	AIU	GIII	400	GIY	GIU	FIIC	AIG	405
326	Δra	Trn	Cve	Dho		G1 v	Asp	Δrσ	Tlo		G1v	Thr	Δla	T.O.11	
327	**** 9	115	CID		410	O.L.J	nsp.	1119	110	415	OLY	1111	ara	пси	420
329	Val	Leu	Va1	Len		T.eu	Leu	Len	Glv		T.e.11	Δsn	Met	Hic	
330	,		, 41	u	425	~~u	LCu	LCu	J-1	430	LCu	-1011		*****	435
332	Thr	Thr	Leu	Leu		Gln	Arg	Ala	Ser		G] 11	Ala	Glu	Ala	
333					440		5			445					450
335	Gln	His	Gly	Pro							.*				
336			- 4		455			•							

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/021,121

DATE: 02/01/2002

TIME: 11:33:54

Input Set : N:\Crf3\RULE60\10021121.raw
Output Set: N:\CRF3\02012002\J021121.raw

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]